"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

KRAMEROVA,Z.; VOJTA,V.; CERNY,M.; SEKLA,B.; SOUKUP,F.

Congenital cerebellar hypoplasia with congenital heart defect and autosomal trisomy in monozygotic twins. Cesk. pediat. 18 no.12:1096-1100 D'63.

1. IV. detska klinika fakulty vseobecneho lekarstvi KU v Praze (prednosta: prof. dr. F.Blazek); Neurologicka klinika fakulty vseobecneho lekarstvi KU v Praze (prednosta:akademik K.Henner) a Biologicky ustav fakulty vseobecneho lekarstvi KU z Praze (prednosta: prof.dr. B.Sekla).

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CERNA, M.; CERNY, M.; BARVIC, M.; SEKLA, B.

Dermatoglyphic examination of children with Down's disease in the ascending line. Acta univ. Carol. [med] (Praha): Suppl. 18: 193-198 '64.

. Ustav obecne biologie fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. B. Sekla) a I. detska klinika fakulty detskeho lekarstvi University Karlovy v Praze (prednosta: prof. dr. J. Svejcar).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

WAGNER, V.; [illegible] V.; [illegible] V.; SEKLA, B.

Reaction to Brucella abortus in rats resistant and susceptible to tumour homografts. Neoplasma (Bratisl.) 12 no.1:35-43 '65

1. Public Health Laboratory, Prague; Physiological Institute, Czechoslovak Academy of Sciences, Prague; Institute of Health Service Organization, Charles University, Prague; Department of Microbiology, Hospital Bulovka, Prague; Department of General Biology, Charles University, Prague, Czechoslovakia.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKLA, B., prof. dr.

The present status of clinical genetics and perspectives of its development. Acta univ. Carol. [med] (Praha): Suppl. 18: 83-89 '64.

1. Ustav obecne biologie fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. B. Sekla)

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CZECHOSLOVAKIA

SEMLA, B., Prof. Dr.

Biological Institute of the Faculty of General Medicine of Charles University (Biologicky ustav fakulty vseobecneho lekarstvi KU), Prague

Prague, Vnitrni Lekarstvi, No 8, 1964, pp 740-744

"Fundamentals of Clinical Genetics and Future Trends."

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

ZEMLICKA, J.

Zemlicka, J. "Light scattering; the determination of molecular weights and the size shape, and interaction of particles." Pt. 2. P. 908 CASOPIS PRO PESTOVANI MATEMATIKY. CZECHOSLOVAK MATHEMATICAL JOURNAL. Vol. 47 No. 6 June 1953 Praha, Czechoslovakia.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L. C. Vol. 3 No. 1 Jan. '54 Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKLACEK BOHUSLAV

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application. Fats and Oils. Waxes. Soap. Detergents. Flotation Reagents. I-10

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2712

Author : Seklacek Bohuslav, Rybin Rudolf
Inst : -
Title : Determination of Oxidation-Induced Changes in Animal Fats by the Colorimetric Method Using 2-Thiobarbituric Acid.

Orig Pub : Prumysl potravin, 1957, 8, No 1, 44-45

Abstract : A colorimetric method is proposed, in which 2-thiobarbituric acid is utilized, for the evaluation of the degree of freshness of fats. 5 g of fat are weighed out with an accuracy within 0.01 g and placed in a 500 ml flask into which are added 100 ml water and 5 ml 3N HCl. The flask is attached, by means of a ground glass joint, to a Liebig condenser and distillation is carried out. For the analysis are taken the first 25 ml of the distillate, which

Card 1/2

After cooling, 0.4 ml of 3N HCl are added, and the solution is diluted with water to a volume of 100 ml. Solution B is concentrated (85%) phosphoric acid.

Card 2/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKLAK, J

"Mechanization of potato cultivation." (p. 384). ZA SOCIALISTICKE ZEMEDELSTVI (Ministerstvo zemedelskychved) Praha, Vol 4, No 8, Apr 1954

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKMEDIN, I. D.

Valves

To conserve materials. Sakh.prom. 27, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEMMA, O.

One-hundred years of Slovak poetry. p. 1579.

LOOMING. (EN Kirjanike Liit) Tallin. Estonia.
No. 10, Oct. 1959.

Monthly List of East European Accessions (EPAI) LC, Vol. 8, no. 12, Dec. 1959.

Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOVANOV, B. (Yaroslavl')

Reflex receiver set using three triodes. Radio no.5:44-45 My '60. (MIRA 13:12)

(Radio--Receivers and reception)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWICZOWA, H.

"Notes on the Middle Triassic in the neighborhood of Radoszyce." p. 347

KWARTALNIK GEOLOGICZNY, (Instytut Geologiczny) Warszawa, Poland. Vol. 2, no. 2, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

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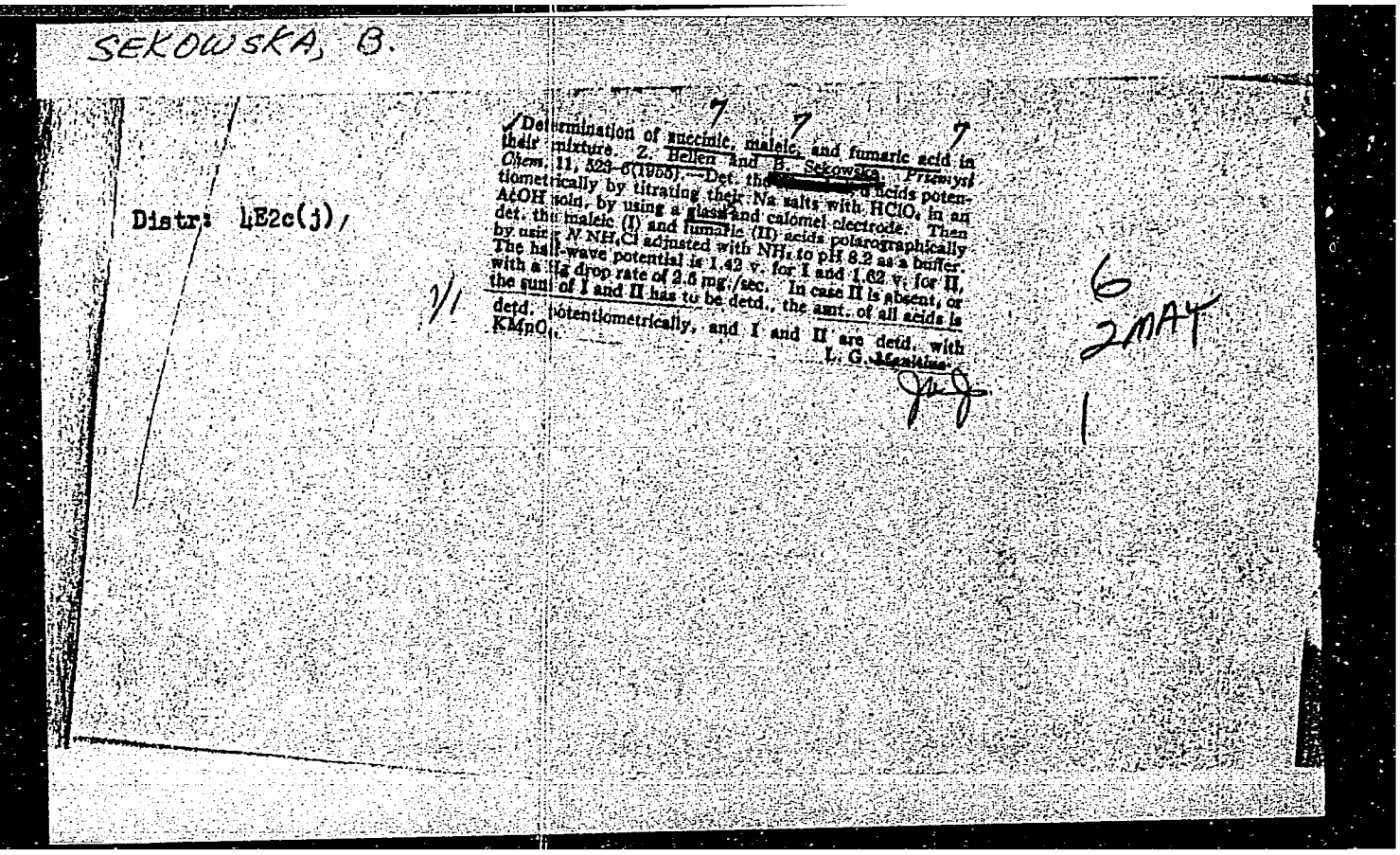

SEKOWSKA, B.

Distr: 4E2c(j)

Determination of succinic, maleic, and fumaric acid in their mixture. Z. Hellen and B. Sekowska. *Przemysl Chem.* 11, 523-6(1955).—Det. the [redacted] acids potentiometrically by titrating their Na salts with $HClO_4$ in an AcOH soln. by using a glass and calomel electrode. Then det. the maleic (I) and fumaric (II) acids polarographically by using a N NH_4Cl adjusted with NH_4 to pH 8.2 as a buffer. The half-wave potential is 1.42 v. for I and 1.62 v. for II, with a Hg drop rate of 2.5 mg./sec. In case II is absent, or the sum of I and II has to be detd., the amt. of all acids is detd. potentiometrically, and I and II are detd. with $KMnO_4$.

L. G. [redacted]

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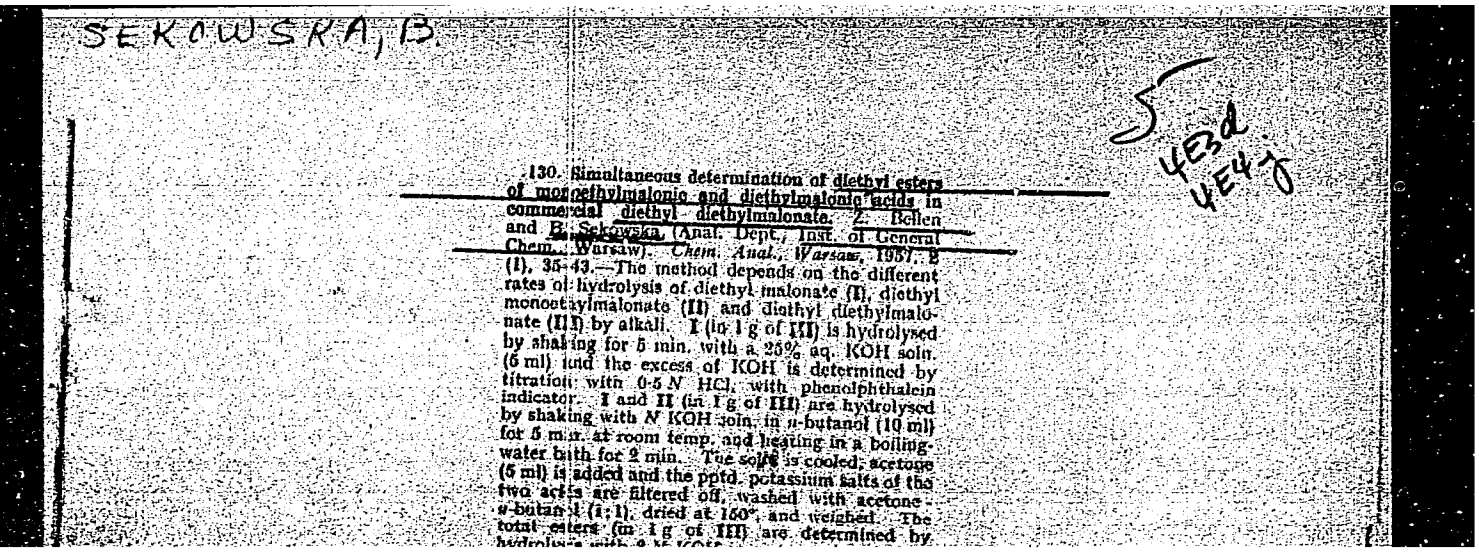

SEKOWSKA, B.

130. Simultaneous determination of diethyl esters of monoethylmalonic and diethylmalonic acids in commercial diethyl diethylmalonate. 2. Bellen and B. Sekowska (Anat. Dept., Inst. of General Chem., Warsaw). *Chem. Anal., Warsaw*, 1957, 2 (1), 35-43.—The method depends on the different rates of hydrolysis of diethyl malonate (I), diethyl monoethylmalonate (II) and diethyl diethylmalonate (III) by alkali. I (in 1 g of III) is hydrolysed by shaking for 5 min. with a 25% aq. KOH soln. (5 ml) and the excess of KOH is determined by titration with 0·5 *N* HCl, with phenolphthalein indicator. I and II (in 1 g of III) are hydrolysed by shaking with *N* KOH soln. in *n*-butanol (10 ml) for 5 min. at room temp. and heating in a boiling-water bath for 2 min. The soln. is cooled; acetone (5 ml) is added and the pptd. potassium salts of the two acids are filtered off, washed with acetone–*n*-butanol (1:1), dried at 160°, and weighed. The total esters (in 1 g of III) are determined by

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKA, B.; BELLEN, Z.

Determination of aldehydes by the argentometric method. 1. Determination of formaldehyde in technical urotropine. p. 25.

CHAMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organicacja Techniczna) Warszawa, Poland. Vol. 4, No. 1/2, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol 8, August 1959. Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

BELLEN, Zygmunt; SEKOWSKA, Barbara

Simultaneous determination of acetaldehyde and paraldehyde. Chem anal 6 no.1:69-74 '61. (EEAI 10:7)

1. Struszynski Analytical Laboratory, Institute of General Chemistry, Warsaw.

(Acetaldehyde) (Paraldehyde)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

BELLEN, Zygmunt; SEKOWSKA, Barbara

Argentometric determination of acetaldehyde in the presence of acetone. Chem anal 6 no.2:201-206 '61. (EEAI 10:9)

1. Struszynski Analytical Department, Institute of General Chemistry, Warsaw.

(A staldehyde) (Acetone) (Argentometry)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKA, Janina

Multilocular cyst of the kidney. Urol. polska no.11:131-136 1957.

1. Z Kliniki Urologicznej w Krakowie Kierownik: prof. dr S. Laskownicki.
(KIDNEYS, cysts
multilocular cyst, case report (Pol))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKA, Janina

True hermaphroditism. Polski przegl. chir. 32 no.10:1029-1031 '60.

1. Z Kliniki Urologicznej A.M. w Krakowie Kierownik: prof. dr St. Laskownicki.

(HERMAPHRODITISM diag)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKA, Janina; GOLAJEWSKI, Andrezej

Primary cancer of a diverticulum of the female urethra. Polski przegl. chir. 33 no.11a:1470-1472 '61.

1. Z Kliniki Urologicznej AM w Krakowie Kierownik: prof. dr S.Laskowmicki.

(URETHRA neopl) (URETHRA dis)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKA, Z.

Simultaneous determination of diethyl esters of monoethylmalonic and diethylmalonic acids in commercial diethylmalonate. Z. Bellen and Z. Sekowska (Inst. Gen. Chem., Warsaw). *Chem. Anal.* 2, 89–98(1957)(English summary); cf. Gamus, *C.A.* 38, 1448⁸; Gyenes, *C.A.* 48, 1896g.—A method of detn. of di-Et esters of Et-CH-(COOH)$_2$ and Et$_2$-C-(COOH)$_2$ in com. Et$_2$-C-(COOEt)$_2$ (I) is described. It consists in hydrolysis of the sample by (*a*) 25% aq. soln. of KOH, (*b*) *N* KOH in anhyd. BuOH, and (*c*) 2*N* H$_2$O-EtOH hot soln. of KOH. In *a* the saponification of I only occurred; in *b* saponification of I and Et$_2$-C-(COOH)-COORt occurred. With *c* the total content of esters can be detd. The compn. of the sample can be calcd. or read from the diagrams given. The accuracy of the method is ±2%.

Z. Kuryłs

SEKOWSKA, Z.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SZKOWSKI, A.

Made in Poland, p. 457, (WIEDZA I ZYCIE, Vol. 21, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5 May 1955, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Boleslaw

Studies on the [illegible]rmination of pollen grain of apple varieties. Prace [illegible] roln i lesn 18 no.2:97-127 '64.

1. Department of Forest Botany, College of Agriculture, Poznan.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

TABEAU, Jerzy;SEKOWSKI, Ignacy

Comparison of electrocardiographic results with clinical examination in cardiovascular diseases. Polski tygod. lek. 12 no.25:957-959 17 June 57.

1. Z I kliniki Chorob Wewnetrznych A. M. w Krakowie: Kierownik: prof. dr. Leon Tochowicz. Adres: Krakow, Bronowice Male ul. Przybyszewskiego 36.

(CARDIOVASCULAR DISEASES, diagnosis,
clin. methods, comparison with ECG (Pol))
(ELECTROCARDIOGRAPHY,
comparison with clin. diag. methods (Pol))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Ignacy

Congenital defects of the heart with auricular communication. Polski tygod. lek. 14 no.40:1777-1786 5 Oct 59.

1. (Z I Kliniki Chorob Wewnetrznych A. M. w Krakowie; kierownik: prof. dr Leon Tochowicz i z Sully Hospital, Wielka Brytania; kierownicy: H. M. Foreman M.B.E., M.B., M.R.C.P., L.R., West M.B.E., M.B., M.R.C.P.) (HEART SEPTUM, abnorm.) (HEART DEFECTS CONGENITAL, compl.)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, K

POL.

Krzeszewski R., Sękowski K. Light Filters in Microphotography.
„Zastosowanie filtrów świetlnych w mikrofotografii". (Prace Inst. Odlewn. No. 1), Stalinogród, 1953, PWT, 7 pp., 21 figs., 3 tabs.

The authors describe the experiments performed by them with a view to determining the suitability of filters in metallography. Achromatic lenses fitted with yellow filters used in conjunction with orthochromatic plates will meet the purpose in ordinary laboratory practice, particularly when making microphotographs of the structure of ferro-alloys. Subtle microphotography, however, and particularly in the case of non-ferrous alloys, requires apochromatic lenses supplemented by a set of filters and used with panchromatic plates. The use of filters makes it possible to detect in the micro-image all details of interest to the metallurgist.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, K.

A102 669.35.5.74

Rutkowski K., Sękowski K. The Relations between Chemical Composition, Structure and Mechanical Propetries of Low-Copper Manganese Brasses.

„Zależność między składem chemicznym, strukturą i własnościami mechanicznymi niskomiedziowych mosiądzów manganowych". (Prace Inst. Odlewn. No. 3), Warszawa, 1955, PWT, 12 pp., 21 figs., 9 tabs.

The possibility of limiting the use in copper alloys not only of deficit alloy components like Sn, Al, Be, Sb etc., but also of copper itself by the introduction of manganese brasses having very high properties and a wide range of uses even with copper content not exceeding 45%. By a systematic investigation of the relations between chemical composition, structure and properties of alloys in the range of 40 + 50% Cu, 40 + 60% Zn and 0 + 10% Mn contents, the most valuable chemical composition, structure and properties of a number of alloys were established as regards economy (minimum Cu) and range of uses (maximum properties). Lines for the development of further investigations are suggested.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

POLAND/Chemical Technology - Chemical Products and Their Application - Synthetic Polymers. Plastics. H.

Abs Jour : Ref Zhur - Khimiya, No 9, 1958, 30816

Author : Sekowski, St.
Inst :
Title : 'Buna 32' A New Metal Binder.

Orig Pub : Wiedza i Zycie, 23, No 1, 33, 1956.

Abstract : A new butadiene base adhesive, 'Buna 32', has been developed in the German Peoples Republic for the bonding of metals (other than Cu) to other metals, to glass, and to ceramics by vulcanizing under low pressure at 110-150° for 10-15 min. The bonds are vibration-proof, resits temperatures of up to 120°, and have a strength of 60-170 kg/cm^2.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, K.

Apparatus for testing structures in elevated temperatures. (To be contd.) Biuletyn. p.8. (Przeglad Odlewnictwa, Vol. 7, No. 3, Mar 1957, Krakow, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEMKOWSKI, K.

Apparatus for testing structures in elevated temperatures. (Conclusion)
Biuletyn. p. 11.

(BIULETYN BUDOWNICTWA. Vol. 7, No. 5, May 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL)LC. Vol. 6, No. 10, October 1957. Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SALA, Tadeusz, mgr., inz.; KLUSKA, S., mgr., inz.; SEKOWSKI, Kazimierz, mgr., inz.

From the activities of the Foundry Institute. Przegl odlew 11 no.10:17-20 Biul Inform '61.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz, mgr., inz.

Classification of phosphorus eutectic in gray cast iron. Przegl odlew 12 no.3:78-83 Mr '62.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz

Influence of the cooling rate and chemical composition of gray cast iron on the structure and distribution of the phosphide eutectic. Prace inst odlew 12 no. 4: 263-291 '60. [publ. '64].

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz, mgr inz.

Microscopic observations of the commencement of gray castiron melting. Przegl odlew 12 no.11:337-341 N '62.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz, dr inz.

Correct preparation of metallographic specimens. Przegl odlew 13 no.4:117-121 Ap '63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz, dr. inz.

Distribution of phosphorus eutectic educts in gray cast iron.
Przegl odlew 13 no. 8/9: Suppl.: Biul inf Inst odlew
13 no.9/10:17-19 '63.

1. Instytut Odlewnictwa, Krakow.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz, dr inz.

Phosphorus eutectic in low-chromium cast iron. Przegl odlew 13 no.7:Suppl:Biul inf inst odlew 13 no.7/8:14-15 '63.

1. Instytut Odlewnictwa, Krakow.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz, dr inz.

Influence of the carbon, silicon, and phosphorus content in gray cast iron on the structure of phosphorous eutectic. Przegl odlewn 13 no. 11: Supplement: Biul inf inst odlew 13 no. 11/12 24 '63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz, dr inz.

Structure of phosphorous eutectic. Przegl odlew 13 no. 5: Supplement: 13 no. 4/6: 9-11 '63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimiers, dr inz.

Influence of the cooling rate of castings and the chemical composition of cast iron on the structure and distribution of phosphorus eutectic. Przegl mech 22 no.24:768 D'63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz

Microsegregation of sulfides in gray cast iron. Przegl odlew 14 no. 1:5-9 Ja '64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz

Microhardness measurements of cementite in cast iron. Przegl odlew 14 no.3:77-83 Mr'64

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SEKOWSKI, Kazimierz

Cell-like structure of cast iron. Przegl odlew 14 no.5:137-142 My '64.

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22(1) SOV/3-59-5-23/34

AUTHOR: Belegenev, V. Ya., Candidate of Physico-Mathematical Sciences, Docent.

TITLE: How We Organize the Teaching of Physics

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 5, pp 77 - 78 (USSR)

ABSTRACT: For many years the physics course program of technical vuzes remained unaltered. However, the chairs of physics could not remain indifferent to the latest achievements of science and amended the programs as far as possible. Yet many problems important for the development of modern engineering were elucidated only in a concise and casual way. The Ministry's letter reference number "I - 100" entitled the vuzes to make corrections in the curriculum and this made it possible for the Khar'kov Institute of Railroad Engineers to work out detailed calendar plans, determine the material which

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How We Organize the Teaching of Physics

the students must study independently, and to eliminate from the lectures subjects which had been learned in the secondary school. The chair prepared and multiplied a number of lectures on problems connected with the latest achievements in the field of physics which are dealt with in textbooks either superficially or not at all. Great attention is given to laboratory work for which 3 hours weekly are assigned. In the descriptions of laboratory tasks the theory of each work is expounded in detail and information is given on the technique of conducting the experiment. The work description is issued in the form of a handbook. Students who have not prepared themselves for laboratory work are not allowed to participate. Twenty-seven hours are assigned in each semester for laboratory work. During this time every student must fulfill not less than 8 to 9 assignments. Another

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How We Organize the Teaching of Physics

5 to 9 hours are used for seminar lessons during which it is examined whether the students have assimilated the theoretical material. The new program of the course in general physics for technical vuzes reflects both old and new problems, and is satisfactory in size and content. The author recommends that the Spetsial'noye konstruktorskoye byuro (Special Design Office) of the USSR Ministry of Higher Education examine the hand-made equipment of the physical laboratories, which is sometimes valuable and interesting, and that the manufacture of these non-standard articles be popularized.

ASSOCIATION: Khar'kovskiy institut inzhenerov zheleznodorozhnogo transporta imeni S.M. Kirova (Khar'kov Institut of Railroad Engineers imeni S.M. Kirov).

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FEDORENKO, Aleksandr Ivanovich; SELEGENEV, Vasiliy Yakovlevich; KHIZHNYAK, N.A., kand. fiz.-matem. nauk, dots., otv. red.; ALYAB'YEV, N.Z., red.

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tekhn.red.

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BELILOVSKIY, Yefim Solomonovich; BOGUSLAVSKIY, Eduard Yelizarovich; BINUS, Mark Semenovich; VOLODIN, Aleksey Pavlovich; KUNIN, Izyaslav Kopelovich, SELEKTOR, Spartak Mikhaylovich; CHUB, Vasiliy Fedoseyevich; YAMKOVOY, Grigoriy Tikhonovich; DMITRIYEV, A.P., otv. red.; KOVAL', I.V., red.izd-va; MAKSIMOVA, V.V., tekhn.red.

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(Krivoy Rog Basin--Ore deposits)

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SELEKTOR, Spartak Mikhaylovich

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SELEKTOR, Ya.M.

USSR/ Nuclear Physics - Proton dispersion

Card 1/1 Pub. 22 - 22-63

Authors : Selector , Ya.M.; Nikitin, S. Ya.; Bogomolov, E.G.; and Zombkovskiy, S.M.

Title : Dispersion of protons with protons of 460-560-660 Mev of energy

Periodical : Dok. AN SSSR 99/6, 967-970, Dec 21, 1954

Abstract : Experiments were conducted with proton dispersion by protons of 460, 560, and 660 Mev of energy. The phasetron of the Institute of Nuclear Problems was used as a proton generator. Proportional counters and a plain counter were used as proton registering devices. Paraffine and carbon discs were used as a diffuser and a carbon controlling diffuser, respectively. The experimental set-up and the equipment is described. The results obtained are presented in the form of graphs. Eight references; 1-USSR (1950-1954). Diagrams; graph.

Institution: .....

Presented by: Academician A.I. Alikhanov, November 4, 1954

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"Scattering of Protons With Energies of 460-660 Mev by Protons." Cand Phys-Math Sci, Acad Sci USSR, Moscow, 1955. (KL, No 17, Apr 55)

SO: Sum. No. 701, 8 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (17)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SELEKTOR, Ya-M.

Nucl-Exp

1972

THE SCATTERING OF PROTONS WITH ENERGIES 460-660 MEV ON PROTONS. S. Ya Nikitin, Ya M. Selector, E. G. Bogomolov, and S. M. Zombkouskii (Academy of Sciences of the U.S.S.R., Moscow). Nuovo cimento (10) 2, 1269-81(1955) Dec. (In English)

(p-p) scattering is studied with protons obtained from the synchrocyclotron of the Institute for Nuclear Problems of the Academy of Sciences of the USSR. The scattering cross section and the angular distribution have been measured in the interval of energies from 460 up to 660 Mev. The results show that practically up to proton energies of 460 Mev the scattering cross section is isotropic, in the interval 560 to 660 Mev it is markedly anisotropic. A discussion of the results obtained is given. (auth)

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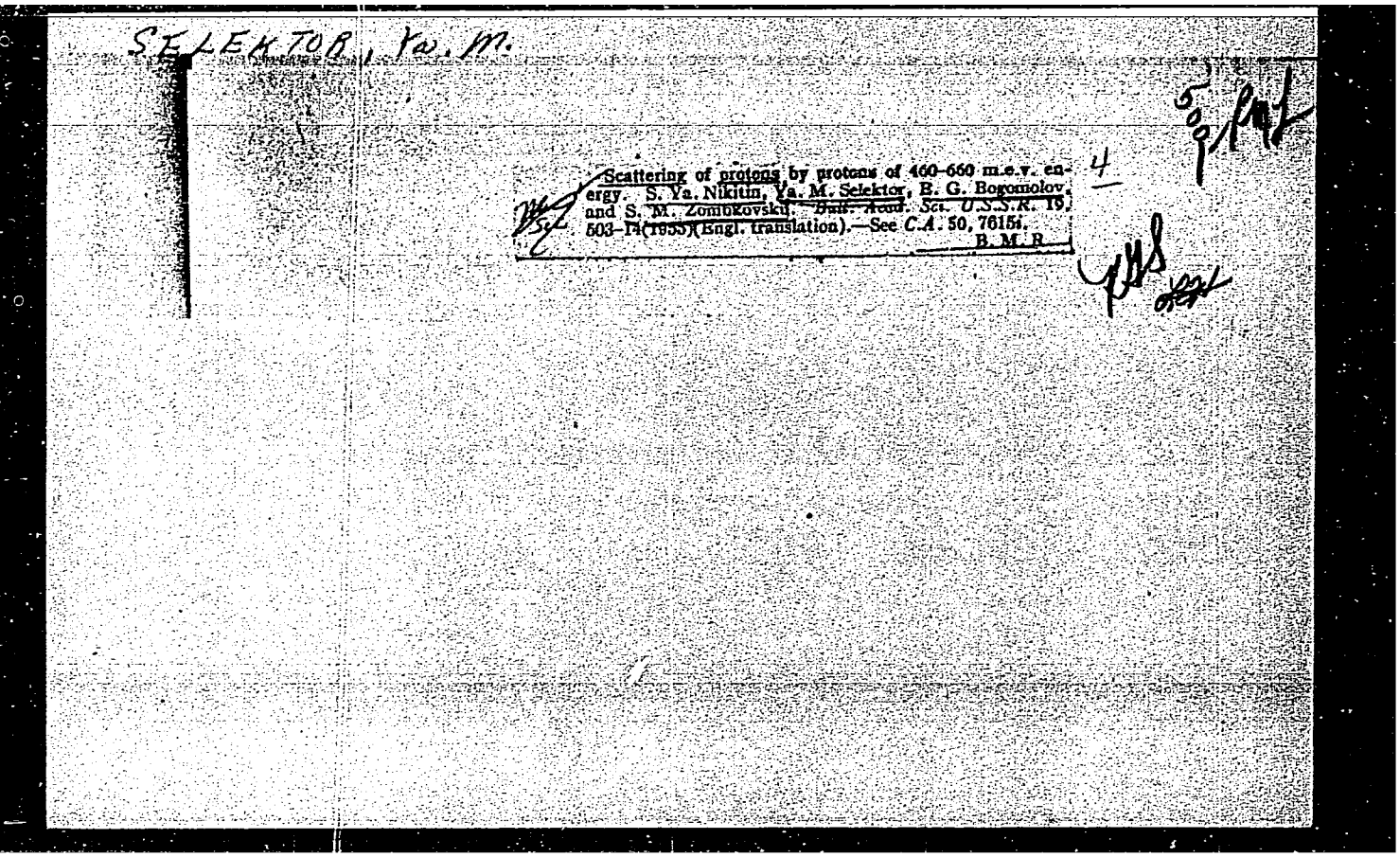

SELEKTOR, Ya. M.

Scattering of protons by protons of 460–660 m.e.v. energy. S. Ya. Nikitin, Ya. M. Selektor, B. G. Bogomolov, and S. M. Zombkovskii. Bull. Acad. Sci. U.S.S.R. 19, 503–14(1955)(Engl. translation).—See C.A. 50, 7615i.
B. M. R.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

SELEKTOR, YA-M.

4982
SCATTERING OF PROTONS BY PROTONS AT 460 TO 660 MEV. S. Ya. Nikitin, Ya. M. Selector, E. G. Bogomolov, and S. M. Zombkovskii. Izvest. Akad. Nauk S.S.S.R. Ser. Fiz. 19, 561-72(1955) Sept.-O *. (In Russian)
Investigations of p-p scattering were carried out with the synchrocyclotron of the Inst. of Nuclear Problems. Protons of 460 and 660 Mev were obtained directly from the accelerator; protons of 560 Mev were obtained by retarding the 660-Mev protons in the graphite filters. (R.V.J.)

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SMIRNOV, V.A., BOGDANOV, L.N., KOLOMENSKIY, A.A. and MERKIN, S.Y.

Elastic small angle scattering of 660 MeV protons by protons (II/59)

CERN-Symposium on High Energy Accelerators and Pion Physics.

Geneva, 11-23 June 56
In. Branch /5

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SELEKTOR, Ya. M., BOGOMOLOV, E.G., ZOMBKOVSKIY, S.M., NIKITIN, S. Ya.

"Elastic Scattering of Protons with an Energy of 660 MeV by Protons at Small Angles," paper presented at CERN Symposium, 1956, appearing in Nuclear Instruments, No. 1, pp. 21-30, 1957

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Selektor, Ya.M.

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AUTHORS: Selektor, Ya. M., Aynutdinov, M.S. and Zombkovskiy, S.M.

TITLE: A Device for Measuring the Pressure and the Level of Hydrogen in Liquid Hydrogen Bubble Chambers 19

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No 3, pp 29-31

ABSTRACT: A description is given of an instrument which can be used to measure the pressure and sudden pressure changes in bubble chambers. The sensitive element is a capacitor. Changes in the pressure lead to changes in the capacitance, and the present paper consists essentially of a description of an electronic circuit which can be used to measure these small changes in the capacitance. The circuit is shown in Fig 1. The working frequency is 200 kc/s. The change in the capacitance is converted into a phase change and this is measured by the circuit. A 40 m cable connects the capacitative probe to the circuit. Steps are taken to compensate changes in the control unit. A sensitivity of 0.5 - 10 μμF per full scale deflection can easily be obtained. The zero drift does not exceed

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S/120/60/000/03/006/055
E032/E514

A Device for Measuring the Pressure and the Level of Hydrogen in Liquid Hydrogen Bubble Chambers

1% of full scale per hour. The instrument can also be used to measure the level of liquid hydrogen and liquid nitrogen in closed metallic containers. In the latter cases use is made of the fact that there is a relatively large difference between the dielectric constant of hydrogen in the vapour and liquid states. In the circuit shown in Fig 1, the alternating voltage from the 200 kc/s oscillator $Л_5$ is applied through the cathode follower $Л_4$ to the grid of the amplifier $Л_1$. The probe unit is connected to the anode of $Л_1$ through the long high-frequency cable K_1. The phase shift at the anode of $Л_1$ is determined by the difference between the oscillator frequency and the resonant frequency of the circuit R_1, L_1, C_1, C. The carrier frequency from the oscillator and the phase-shifted oscillations from the anode of $Л_1$ are applied to the phase detector $Л_2, Л_3$, $Д_1$ and $Д_2$. The output of the phase detector can be connected either to a pointer instrument or a CRO. There is 1 figure.

Card 2/2

SUBMITTED: May 23, 1959

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

S/120/61/000/001/009/062
E032/E114

AUTHORS: Aynutdinov, M.S., Zombkovskiy, S.M., Nikitin, S.Ya., and Selektor, Ya.M.

TITLE: A 25 cm Diameter Liquid Hydrogen Bubble Chamber

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.35-39

TEXT: A description is given of a liquid hydrogen bubble chamber having a working diameter of 25 cm and a depth of 10 cm. The chamber is operated in a constant magnetic field of 14000 oe (5% uniformity over working region). The expansion is carried out by means of stainless steel bellows, 10 cm in diameter. About 12 litres of liquid hydrogen are necessary in order to cool the chamber from the liquid nitrogen temperature to the liquid hydrogen temperature. The time necessary to cool the chamber from room temperature down to 20 °K is about 24 hours, and under dynamic conditions (expansion after each 14 sec) the liquid hydrogen consumption is 2 to 2.5 litres/hour. The upper and lower pressure on expansion is 5.5 and 1.5 atm respectively. The corresponding temperature of the chamber and the hydrogen bath is 27 °K and 26.5 °K, respectively.

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S/120/61/000/001/009/062
E032/E114

A 25 cm Diameter Liquid Hydrogen Bubble Chamber

The bubble chamber has been used in the π^--meson beam of the 7 GeV machine of the Joint Institute of Nuclear Studies, (Ob'yedinennyy institut yadernykh issledovaniy). A detailed sectional drawing of the device is given.
Acknowledgements are expressed to V.A. Beketov and A.P. Besschetniy for developing parts of the chamber and to V.T. Smolyankin and A.A. Sokolov for valuable advice.
There are 4 figures and 4 references: 1 Soviet and 3 non-Soviet.

SUBMITTED: February 5, 1960

Card 2/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

S/120/61/000/001/056/062
E032/E114

AUTHORS: Beketov, V.A., Selektor, Ya.M., Zombkovskiy, S.M., and Aynutdinov, M.S.

TITLE: Vacuum-Tight Glass Windows for Liquid Hydrogen Bubble Chambers

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.182-183

TEXT: One of the most difficult problems in the design of liquid hydrogen bubble chambers is to produce a reliable vacuum-tight union between the body of the chamber and the glass windows through which the working volume is photographed and illuminated. Existing designs (D. Parmentier Jr., A.J. Schwemin, Ref.1, and V.Z. Kolganov et al. Ref.2) are said to be either unreliable for chamber diameters in excess of 25 cm, or require replacement of the sealing elements after one or two successive working cycles. The present authors have used the design shown in the figure. The copper gasket 1 is inserted into a groove in the body of the chamber and is in contact with the teflon ring 2. In the upper part of the copper gasket there is a rectangular groove carrying a further teflon ring 3. When the arrangement is compressed by

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E032/E114

Vacuum-Tight Glass Windows for Liquid Hydrogen Bubble Chambers

the brass bolts the copper gasket is squashed and the teflon rings provide the vacuum-tight seal. In order to achieve a uniform transmission of pressure to the glass a further copper gasket 4 is placed between the glass and the flange 7. The copper gasket 1 was 3.1 mm wide and 7.5 mm high. The width and height of the teflon ring 3 were 1 and 1.8 mm respectively. Glass windows up to 40-50 cm in diameter can be produced in this way.
There are 1 figure and 2 references: 1 Soviet and 1 non-Soviet.

SUBMITTED: December 10, 1959

Card 2/3

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

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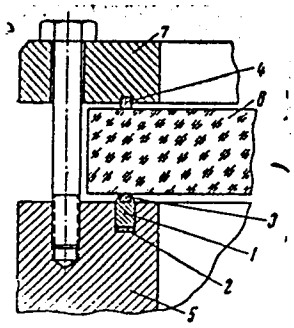
E032/E114

Vacuum-Tight Glass Windows for Liquid Hydrogen Bubble Chambers



Figure

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SELEKTOR, YA. M.

95

S/089/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fizicheskogo instituta (Scientific Conference of the Moscow Engineering Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400 delegates participating. A review is given of these lectures that are assumed to be of interest for the readers of Atomnaya energiya. They are following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev, design of accelerators for superhigh energies; I. Ya. Pomeranchuk, analyticity, unitarity, and asymptotic behavior of strong interactions at high energies; A. B. Migdal, phenomenological theory for the many-body problem; Yu. D. Fiveyskiy, deceleration of medium-energy antiprotons in matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect; M. I. Ryazanov, theory of ionization losses in nonhomogeneous medium; Yu. B. Ivanov, A. A. Rukhadze, h-f conductivity of suboritical plasma;

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Nauchnaya konferentsiya...

Ye. Ye. Lovetskiy, A. A. Rukhadze, electromagnetic waves in nonhomogeneous plasma; Yu. D. Kotov, I. L. Rozental', the origin of fast cosmic muons; Yu. M. Ivanov, muon depolarization in solids; V. G. Varlamov, Yu. M. Grashin, B. A. Dolgoshein, V. G. Kirillov-Ugryumov, V. S. Roganov, A. V. Samoylov, μ^- capture by various nuclei; V. S. Demidov, V. G. Kirillov-Ugryumov, A. K. Ponosov, V. P. Protasov, F. M. Sergeyev, scattering of π^- mesons at 5 - 15 Mev in a propane bubble chamber; S. Ya. Nikitin, M. S. Aynutdinov, Ya. M. Selektor, S. M. Zombkovskiy, A. F. Grashin, muon production in π^-p interactions; B. A. Dolgoshein, spark chambers; N. G. Volkov, V. K. Lyapidevskiy, I. M. Obodovskiy, study of operation of a convection chamber; K. G. Finogenov, production of square voltage pulses of high amplitudes; G. N. Aleksakov, problems of color vision; V. K. Lyapidevskiy, relation between number of receivers and number of independent colors; Ye. M. Kudryavtsev, N. N. Sobolev, N. I. Tizengauzen, L. N. Tunitskiy, F. S. Fayzulov, determination of the moment of electron transition of oscillator forces and the widths of the Schuhman-Runge bands of molecular oxygen; B. Ye. Gavrilov, A. V. Zharikov, V. I. Rayko, decomposition of the volume charge of intense ion beams; Ye. A. Kramer-Ageyev, V. S. Troshin, measurement of neutron spectra; G. G. Doroshenko, new methods of fast-neutron recording; V. I. Ivanov, dosimetry terminology; R. M. Voronkov,

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

AYNUTDINOV, M.S.; ZOMBKOVSKIY, S.M.; NIKITIN, S.Ya.; SELEKTRO, Ya.M.; GRASHIN, A.F.

On $\pi\pi^-$-interaction in π^--p-collisions at an energy of 7.2 Bev. Zhur. eksp. i teor. fiz. 42 no.5:1413-1415 My '62. (MIRA 15:9)

1. Institut teoreticheskoy i eksperimental'noy fiziki.
(Mesons) (Collisions (Nuclear physics))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

S/056/62/042/006/014/047
B104/B102

AUTHORS: Aynutdinov, M. S., Zombkovskiy, S. M., Nikitin, S. Ya., Selektor, Ya. M.

TITLE: The elastic scattering of 7.2-Bev π^- mesons by protons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 6, 1962, 1495-1498

TEXT: The elastic scattering of the mesons was measured in a liquid-hydrogen bubble chamber (25 cm diameter) placed in a magnetic field of 13.5 koe. The chamber was exposed to a beam of external π^- mesons from the proton-synchrotron of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). The meson beam was produced in an internal beryllium target, focussed by four quadrupole lenses, analyzed by the magnetic field according to the momentum, and directed to the entrance of the bubble chamber. The meson energy had a Gaussian distribution with a half-width of 0.8 Bev. From 10 to 25 mesons were recorded for each expansion. From 13,700 photographs, 1619 events of πp interactions were found; whereof 192 were identified as

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The elastic scattering of ...

elastic scattering events. The differential cross section of the elastic π^-p scattering was determined for angles between 4 and 28.3° in the c.m.s. (Fig. 2). The scattering amplitude was calculated for $R = 1.02 \cdot 10^{-13}$ cm, $K = 0.70 \cdot 10^{23}$ cm^{-1}, $k_1 = 0$, and $\sigma_{diff} = 4.84$ millibarn with the help of

$$f(0) = ik_0 \int_0^R [1 - \exp(-K + 2ik_1\sqrt{R^2 - \rho^2})] J(k_0 \rho \sin\theta)\rho d\rho.$$

Here k_0 is the wave number of the primary pion, k_1 is the change in the real part of the wave number, and K is the absorption coefficient. $\sigma_{abs} = 31 \pm 3.1$ mb; $\sigma_{el}(\theta' \geqslant 5^\circ) = 3.90 \pm 0.54$ mb; $\sigma_{el}(\theta^\circ) = 39.2$ mb/steradian. The results can be expressed very well in terms of the optical model of a proton ($\sigma_{opt}(\theta^\circ) = 33.5$ mb/steradian). There are 2 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

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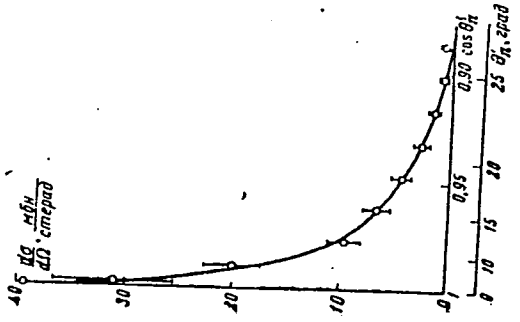
The elastic scattering of ...

SUBMITTED: January 30, 1962

Fig. 2. Angular dependence of the elastic scattering cross section.



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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

AYMUTDINOV, M. S.; NIKITIN, S. Ya.; SELEKTOR, Ya. M.; ZOMBKOVSKY, S. M.

"Investigation of Resonance States in $\Lambda\pi$ - Meson Systems."

Report presented at the Int. Conference on High Energy Physics, Geneva, 4-11 July 1962

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SELEKTOR, YA.M.

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B108/B138

AUTHORS: Aynutdinov, M. S., Zombkovskiy, S. M., Nikitin, S. Ya., Selektor, Ya. M., Grashin, A. F.

TITLE: π-π interaction in π^--p collisions at 7.2 Bev

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 5, 1962, 1413-1415

TEXT: In order to collect information on pion multiple production the authors studied 7.2-Bev π^--p collisions using a liquid hydrogen chamber in a magnetic field. The distribution of $\pi^- + p \rightarrow p + \pi^- + k\pi^0$ events according to the square of the pion total energy ω has a narrow peak at $\omega^2 \sim 30$. This is attributed to participation of spin 1 ϱ-mesons in the reaction $\pi^- + p \rightarrow p + \varrho^- \rightarrow p + \pi^- + \pi^0$. The production cross section of ϱ^--mesons is $\sim$1 mbarn. The scattering cross section $\sigma_{\pi\pi}$ for primary momenta of 2.8 Bev/c is about 300 $\pm$ 100 mbarn for ω^2 = 20-30. There are 2 figures.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

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B108/B138

π-π interaction in...

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki (Institute of Theoretical and Experimental Physics)

SUBMITTED: March 5, 1962

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

S/056/62/043/004/055/061
B104/B166

AUTHORS: Aynutdinov, M. S., Zombkovskiy, S. M., Nikitin, S. Ya., Selektor, Ya. M., Shulyachenko, V. N.

TITLE: πp-interaction during multiple pion production in np-collisions

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1543-1546

TEXT: πp-interaction was studied on 7.2 Bev primary π^--mesons whose velocity distribution was Gaussian with a half width of 0.8 Bev. 13,000 photographs were taken from a 25 cm wide liquid-hydrogen bubble chamber placed in a magnetic field of 13,500 gauss. The reactions

$$\pi^- + p \to 2\pi^- + 2\pi^+ + n + k\pi^0, \quad (1)$$
$$\pi^- + p \to 3\pi^- + 3\pi^+ + n + k\pi^0, \quad (2)$$

were studied. k is the known number of π^0-mesons. The reactions

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ππ-interaction during multiple ...

$$\pi^- + p \to 2\pi^- + \pi^+ + p + k\pi^0, \quad (3)$$
$$\pi^- + p \to 3\pi^- + 2\pi^+ + p + k\pi^0 \quad (4)$$

were excluded by identifying the protons from their momenta and by estimating the ionization. The numbers of possible combinations ($\pi^-\pi^-$, $\pi^+\pi^+$, $\pi^+\pi^-$, $\pi^-\pi^0$) as functions of the effective masses have sharp maxima at the mass values of 0.33, 0.44, 0.56, 0.76, 0.99. Evidently, there are resonances at these mass values in the systems with two pions. It is proved that one and the same pion is not involved in two maxima. It is concluded that in systems with equal mass values, but with different isotopic spins and mechanical spins, there exist two resonance systems. This means that in the case of strong interaction there is a degeneracy with respect to the two spins. There are 2 figures and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

SUBMITTED: June 20, 1962

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547710014-1

S/056/63/044/002/004/065
B102/B186

AUTHORS: Aynutdinov, M. S., Zombkovskiy, S. M., Nikitin, S. Ya., Selektor, Ya. M., Shulyachenko, V. N.

TITLE: Multiple production of pions in 7.2 Bev π^-p collisions

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 2, 1963, 413-420

TEXT: The authors here continue previous investigations (ZhETF, 1543, 1961) in which they had shown that the resonances observed in inelastic πp collisions (cf. e.g. Phys. Rev. Lett., 6, 624, 628, 1961) play an important part in multiple pion production. Now the angular and momentum distributions of pions and protons are investigated for inelastic π^-p interactions of various multiplicities. The resonances arising in three- and four-pion systems are also studied, and the results are compared with the statistical theory. The measurements were made in a liquid-hydrogen bubble chamber positioned in a magnetic field of 13.5 kõe. The π^- beam was obtained from the inner Be target of a proton synchrotron. The mean beam energy was 7.2 Bev, the π^- momentum distribution was Gaussian with a

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Multiple production of pions ...

spread of $\approx \pm 0.8$ Bev/c. A total of 13,000 emulsion plates were scanned, and among 1590 np interaction events found, there were 192 elastic ones. The mean multiplicity was ≈ 3.6, i.e. there were 2-, 4-, 6- and 8-pronged stars with a percentage of 36.6, 49.3, 13.2, and 0.8%, respectively; the cross-sections were 10.0, 13.5, 3.6, and 0.2 mb. The total cross-section was $\sigma_{tot} = 31.4 \pm 3.1$ mb, and $\sigma_{el} = 3.90 \pm 0.54$, $\sigma_{inel} = 27.1 \pm 0.3$ mb. For 2-, 4-, and 6-pronged stars in the c.m.s. the proton momentum distributions differ greatly, whereas the proton angular distributions and the π^- momentum distributions are more similar. The $\pi\pi$-resonances arising in multiple pion production play the main role. It is assumed that in this process resonance states of three or four pions are formed, which decay into lower ones or pions. This is verified in determination of the effective masses of all possible combinations of charged pions for four-pronged stars and in an investigation of the existence of bound states with energies above 1 Bev. There are 12 figures and 2 tables.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki (Institute of Theoretical and Experimental Physics)

SUBMITTED: July 21, 1961

Card 2/2

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